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SEQUENCE LISTING

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<120> NOVEL APOPTOSIS PROTEINS

<130> A-68285/RMS/DHR

<140> US 09/762,491

<141> 2001-05-09

<150> PCT/US 99/17776

<151> 1999-08-06

<150> US 60/099,486

<151> 1998-09-08

<150> US 60/095,590

<151> 1998-08-06

<150> US 60/095,587

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<212> DNA

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Tyr Val Asn Lys Arg Asn Thr Thr Trp Gln Ala Gly His Asn Phe Tyr  
35 40 45

Asn Val Asp Met Ser Tyr Leu Lys Arg Leu Cys Gly Thr Phe Leu Gly  
50 55 60

Gly Pro Lys Pro Pro Gln Arg Val Met Phe Thr Glu Asp Leu Lys Leu  
65 70 75 80

Pro Ala Ser Phe Asp Ala Arg Glu Gln Trp Pro Gln Cys Pro Thr Ile  
85 90 95

Lys Glu Ile Arg Asp Gln Gly Ser Cys Gly Ser Cys Trp Val Arg Pro  
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Cys Trp Leu Val Gly Lys Arg Trp Arg Glu Ser Gly Ser Asn Thr Gly  
115 120 125

Glu Ser Trp Gly Ile Arg Gly Gly Asp Asn Ser Asp Lys Ala Ser Tyr  
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Ser Gly His Glu

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Leu Pro Val Lys Met Ala Ser Ile Phe Lys Asn Phe Val Ile Thr Tyr  
 35 40 45

Asn Arg Thr Tyr Glu Ser Lys Glu Glu Ala Arg Trp Arg Leu Ser Val  
 50 55 60

Phe Val Asn Asn Met Val Arg Ala Gln Lys Ile Gln Ala Leu Asp Arg  
 65 70 75 80

Gly Thr Ala Gln Tyr Gly Val Thr Lys Phe Ser Asp Leu Thr Glu Glu  
 85 90 95

Glu Phe Arg Thr Ile Tyr Leu Asn Thr Leu Leu Arg Lys Glu Pro Gly  
 100 105 110

Asn Lys Met Lys Gln Ala Lys Ser Val Gly Asp Leu Ala Pro Pro Glu  
 115 120 125

Trp Asp Trp Arg Ser Lys Gly Ala Val Thr Lys Val Lys Asp Gln Gly  
 130 135 140

Met Cys Gly Ser Cys Trp Ala Phe Ser Val Thr Gly Asn Val Glu Gly  
 145 150 155 160

Gln Trp Phe Leu Asn Gln Gly Thr Leu Leu Ser Leu Ser Glu Gln Glu  
 165 170 175

Leu Leu Asp Cys Asp Lys Met Asp Lys Ala Cys Met Gly Gly Leu Pro  
 180 185 190

Ser Asn Ala Tyr Ser Ala Ile Lys Asn Leu Gly Gly Leu Glu Thr Glu  
 195 200 205

Asp Asp Tyr Ser Tyr Gln Gly His Met Gln Ser Cys Asn Phe Ser Ala  
 210 215 220

Glu Lys Ala Lys Val Tyr Ile Asn Asp Ser Val Glu Leu Ser Gln Asn  
 225 230 235 240

Glu Gln Lys Leu Ala Ala Trp Leu Ala Lys Arg Gly Pro Ile Ser Val  
 245 250 255

Ala Ile Asn Ala Phe Gly Met Gln Phe Tyr Arg His Gly Ile Ser Arg  
 260 265 270

Pro Leu Arg Pro Leu Cys Ser Pro Trp Leu Ile Asp His Ala Val Leu  
 275 280 285

Leu Val Gly Tyr Gly Asn Arg Ser Asp Val Pro Phe Trp Ala Ile Lys  
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Asn Ser Trp Gly Thr Asp Trp Gly Glu Lys Gly Tyr Tyr Tyr Leu His  
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Arg Gly Ser Gly Ala Cys Gly Val Asn Thr Met Ala Ser Ser Ala Val  
 325 330 335

Val Asp

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Gly Thr Val Phe Arg Ala Gln His Arg Lys Trp Gly Tyr Asp Val Ala  
 35 40 45

Val Lys Ile Val Asn Ser Lys Ala Ile Ser Arg Glu Val Lys Ala Met  
 50 55 60

Ala Ser Leu Asp Asn Glu Phe Val Leu Arg Leu Glu Gly Val Ile Glu  
 65 70 75 80

Lys Val Asn Trp Asp Gln Asp Pro Lys Pro Ala Leu Val Thr Lys Phe  
 85 90 95

Met Glu Asn Gly Ser Leu Ser Gly Leu Leu Gln Ser Gln Cys Pro Arg  
 100 105 110

Pro Trp Pro Leu Leu Cys Arg Leu Leu Lys Glu Val Val Leu Gly Met  
 115 120 125

Phe Tyr Leu His Asp Gln Asn Pro Val Leu Leu His Arg Asp Leu Lys  
 130 135 140

Pro Ser Asn Val Leu Pro Asp Pro Glu Leu His Val Lys Leu Ala Asp  
 145 150 155 160

Phe Gly Leu Ser Thr Phe Gln Gly Gly Ser Gln Ser Gly Thr Gly Ser  
 165 170 175

Gly Glu Pro Gly Gly Thr Leu Gly Tyr Leu Ala Pro Glu Leu Phe Val  
 180 185 190

Asn Val Asn Arg Lys Ala Ser Thr Ala Ser Asp Val Tyr Ser Phe Gly  
 195 200 205

Ile Leu Met Trp Ala Val Leu Ala Gly Arg Glu Val Glu Leu Pro Thr  
 210 215 220

Glu Pro Ser Leu Val Tyr Glu Ala Val Cys Asn Arg Gln Asn Arg Pro  
 225 230 235 240

Ser Leu Ala Glu Leu Pro Gln Ala Gly Pro Glu Thr Pro Gly Leu Glu  
245 250 255

Gly Leu Lys Glu Leu Met Gln Leu Cys Trp Ser Ser Glu Pro Lys Asp  
260 265 270

Arg Pro Ser Phe Gln Glu Cys Leu Pro Lys Thr Asp Glu Val Phe Gln  
275 280 285

Met Val Glu Asn Asn Met Asn Ala Ala Val Ser Thr Val Lys Asp Phe  
290 295 300

Leu Ser Gln Leu Lys Ser Ser Asn Arg Arg Phe Ser Ile Pro Glu Ser  
305 310 315 320

Gly Gln Gly Gly Thr Glu Met Asp Gly Phe Arg Arg Thr Ile Glu Asn  
325 330 335

Gln His Ser Arg Asn Asp Val Met Val Ser Glu Trp Leu Asn Lys Leu  
340 345 350

Asn Leu Glu Glu Pro Pro Ser Ser Val Pro Lys Lys Cys Pro Ser Leu  
355 360 365

Thr Lys Arg Ser Arg Ala Gln Glu Glu Gln Val Pro Gln Ala Trp Thr  
370 375 380

Ala Gly Thr Ser Ser Asp Ser Met Ala Gln Pro Pro Gln Thr Pro Glu  
385 390 395 400

Thr Ser Thr Phe Arg Asn Gln Met Pro Ser Pro Thr Ser Thr Gly Thr  
405 410 415

Pro Ser Pro Gly Pro Arg Gly Asn Gln Gly Ala Glu Arg Gln Gly Met  
420 425 430

Asn Trp Ser Cys Arg Thr Pro Glu Pro Asn Pro Val Thr Gly Arg Pro  
435 440 445

Leu Val Asn Ile Tyr Asn Cys Ser Gly Val Gln Val Gly Asp Asn Asn  
450 455 460



Tyr Leu Thr Met Gln Gln Thr Thr Ala Leu Pro Thr Trp Gly Leu Ala  
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Pro Ser Gly Lys Gly Arg Gly Leu Gln His Pro Pro Pro Val Gly Ser  
 485 490 495

Gln Glu Gly Pro Lys Asp Pro Glu Ala Trp Ser Arg Pro Gln Gly Trp  
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Tyr Asn His Ser Gly Lys Glx  
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 gcuccaauuc c 11

<210> 9  
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 gctccaattc c 11

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